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M27rider
THE BLINDER FOR BIKES

Distributed in the USA by:

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BLINDER AUTHORIZED DEALER

Cheetah

M27rider

with VizAlert V2 Display

Owner's Manual

Version 2

Copyright & Compliance

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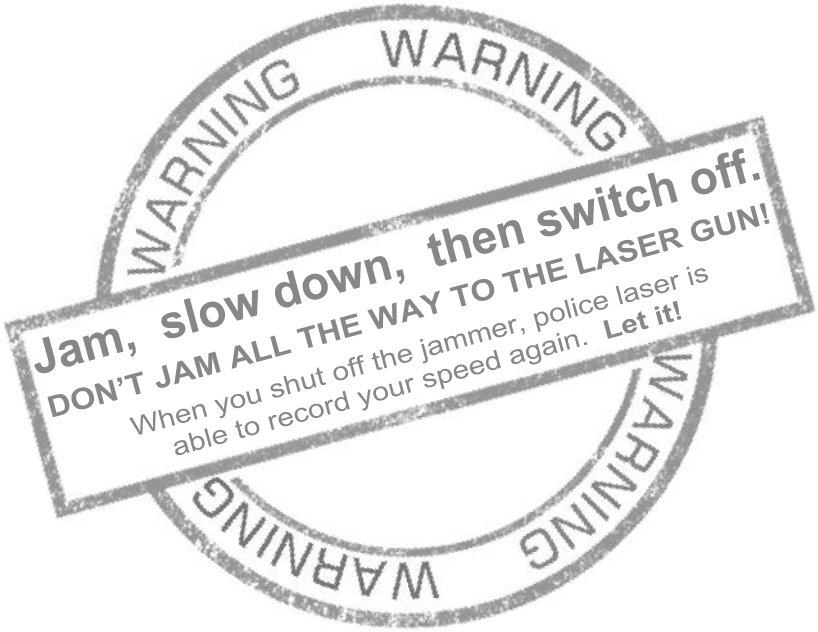
Cheetah Advanced Technologies Ltd. declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user’s authority to operate the equipment.


WARNING
WARNING
Jam, slow down, then switch off.
DON’T JAM ALL THE WAY TO THE LASER GUN!
When you shut off the jammer, police laser is able to record your speed again. Let it!
WARNING
WARNING

Warranty Registration

To register for warranty purposes, visit:

www.register.speedcheetah.com

Please attach your receipt here for future reference. If you do not register online and later require warranty support, you will need to send a copy to us as proof of purchase.

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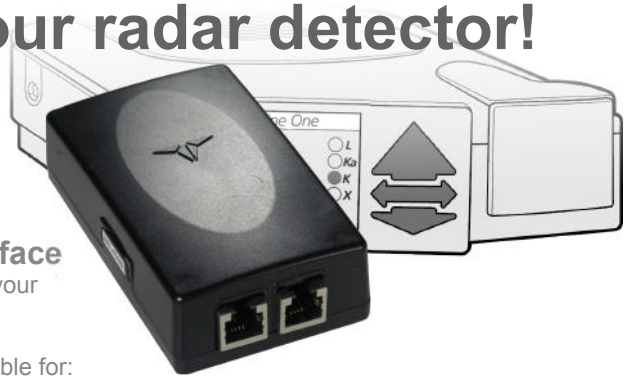
M27 Rider Accessories

Got a another helmet?

VizAlert Classic Display
100% waterproof helmet receiver to fit on the outside of an open face helmet

Uncage your radar detector!



Radar Detector Interface
Make radar alerts visible on your VizAlert display

Cheetah Interfaces are available for:
Valentine One, Beltronics STi Driver, Escort 8500 X50, Escort Solo S2, Escort SR7, SR7plus, the Escort SRX and the Target EVO 966RM (European model)

Other Replacement Parts
Component parts for the M27rider, like cables, power supplies, boom support arms or handlebar switches are available on request.

USA & Canada
www.GPSdetector.com

Europe & rest of world
www.SpeedCheetah.com

Limited 1 yr Warranty

Cheetah Advanced Technologies Ltd. warrant our products against all defects in materials and workmanship for a period of **one year** from the date of the original purchase, subject to the following terms and conditions.

This warranty is limited to the original owner, and is Non-Transferable. This warranty does not apply if the serial number has been removed or is unreadable or if the product has been subjected to physical abuse, improper installation, modification or internal examination. The sole responsibility of Cheetah Advanced Technologies Ltd under this warranty is limited to repair or, at discretion, replacement of the product.

Cheetah Advanced Technologies disclaims all other warranties, expressed or implied, including warranties of fitness for any particular purpose or merchantability. Cheetah Advanced Technologies Ltd accept no liability for any direct, indirect or consequential claim arising from the use or misuse of this product or from any incident arising from an installation that inhibits the correct operation of an airbag or any other vehicle system.

Features, specifications and prices subject to change without notice.

Service & Support

Before sending any products back to us for service, please check the Customer service website page on ***www.SpeedCheetah.com*** or send a support email to us at ***support@SpeedCheetah.com***. Do not attempt to service this product yourself. Do not open, puncture or disassemble the unit or your warranty will be void.

To obtain factory service, the product must be returned to Cheetah, at the address below, in its original packaging or a suitable alternative. We cannot be held responsible for any returned product until it has been delivered to our premises - please ensure you use a mail service that is insured against loss, and that you can track. You must also include a description of the problem, your name, return shipping address, daytime telephone number and proof of purchase.

Proof of Purchase

Please keep your store receipt in a safe place. If you did not buy the unit directly from Cheetah, or register the warranty online, you must include a copy of your dated store receipt with any returned unit. If no copy of the receipt is included, out of warranty service charges will apply.

Where to ship:

UK Cheetah Advanced Technologies Ltd
Birchbrook House, Doune Road, Dunblane, Perthshire, FK15 9ND

USA Cheetah USA LLC
3317 South Higley Road, #114-178, Gilbert, Arizona, 85297

Europe & Other Please email us at ***support@SpeedCheetah.com*** for country specific return address details.

Congratulations

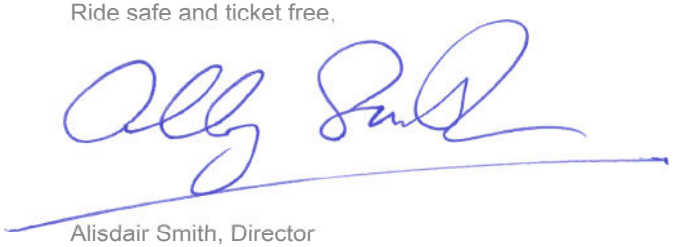
Thank you for purchasing the Cheetah M27 Rider, the only laser jamming system that's custom made for motorcycles. Another world first from Cheetah.

Your new laser jammer is based on the super effective "jamming engine" of the Blinder M27 X-TREME platform, so it can detect and protect against all the different laser guns in use today without showing jamming codes on police laser. The officer sees the same normal error messages his gun gives all the time so there is no indication that he is being jammed.

The Cheetah M27 Rider jams every laser gun in use today and what's more, it's future proof. There's a free factory upgrade service for when new laser guns are released.

And don't forget, if you have one of the top performing radar detectors listed on page 10, like the Valentine 1, then we make Radar Detector Interfaces that link your existing radar detector up wirelessly with the Cheetah M27 Rider. The VizAlert display that's part of your system is the most advanced radar detector display in the world and it shows you different colors for different radar or laser bands, and flashes more quickly as the signal strength gets stronger. It's the only heads up display that lets you know exactly what's going on, without looking down.

Ride safe and ticket free,



Alisdair Smith, Director
Cheetah Advanced Technologies

System Contents

1 x VizAlert V2 - 6 color LED display with 2 x CR2302 cell batteries **1**

2 x Blinder M27 XTREME heads - modified short cables with waterproof connectors **2**

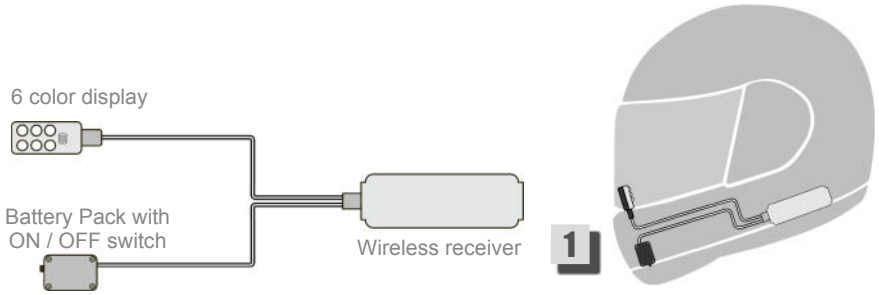
1 x Waterproof Control Box with built-in LASERnode transmitter and status LED **3**

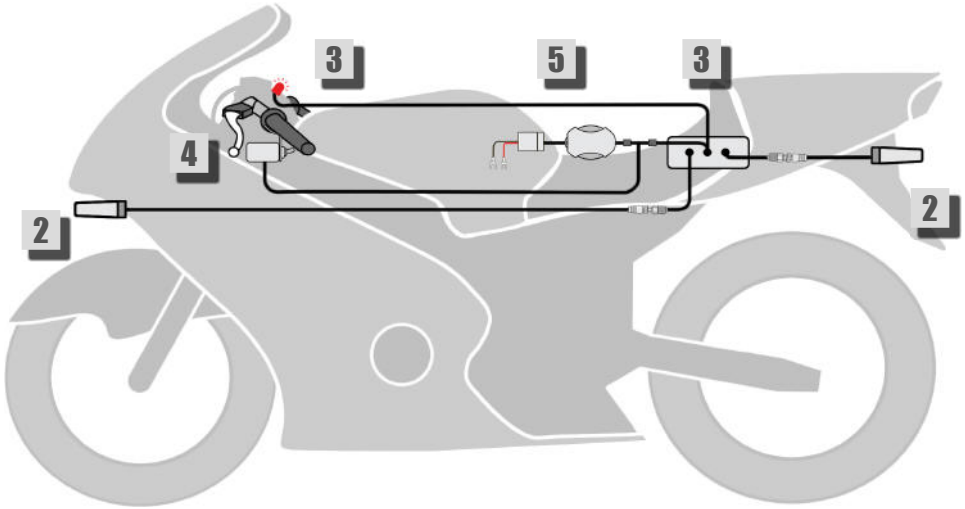
1 x Waterproof handlebar kill switch with powder coated bracket and cable tie **4**

1 x POWERSENSEnode engine running sensor with 3 Amp in-line fuse **5**

1 x Fitting kit for jammer heads

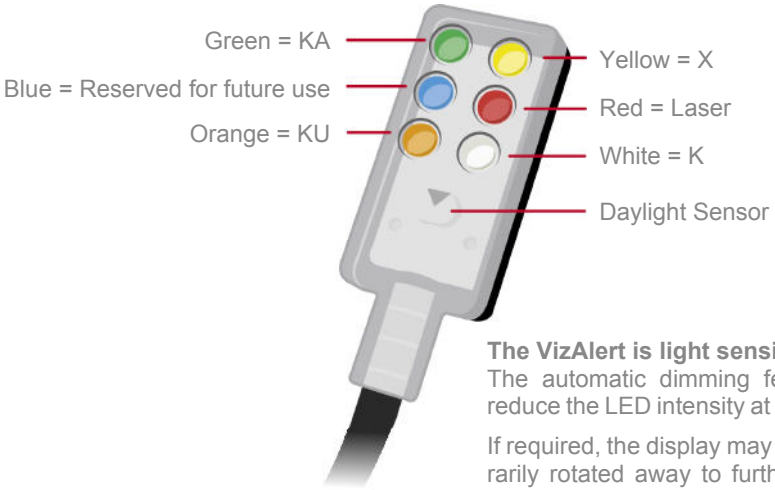
1 x User manual





Understanding Alerts

When your jammer is firing, it will trigger the red LED to flash rapidly. The other colors are used for radar detector alerts from compatible radar detectors (see page 11). Different colors represent different radar / laser bands.



The VizAlert is light sensitive.
The automatic dimming feature will reduce the LED intensity at night time.

If required, the display may be temporarily rotated away to further protect your night vision.

LED COLOR	MEANING
Green	**KA band radar**
White	**K band radar**
Yellow	**X band radar**
Orange	**KU band radar**
Red (medium flashing)	**Laser alert from your radar detector**
Red (rapid flashing)	**Laser alert from your laser jammer**
Blue	**not currently used - reserved for future**
All 6 LEDs flash once	**Power ON**
All 6 LEDs flash twice	**Power OFF**
All 6 LEDs flash in sequence	**Wireless link established**
Green, Blue then Orange	**Low battery** - replace the batteries soon
Yellow and Orange alternately (6 flashes ever 30 seconds until the wireless connection is re-established)	**No wireless link / Out of range**

Switching ON & OFF

The helmet display and the jammers are switched on and off independently of each other.

1 Switching the helmet display ON and OFF
The VizAlert V2's battery pack has a sliding ON/OFF switch.

All 6 LEDs will flash once, at the same time, to confirm it is switched on.

Automatic shut-down - If you forget to switch the VizAlert display off, it will automatically shut itself down 10 minutes after the jammer control box stops transmitting, to conserve battery power. All 6 LEDs will flash twice to confirm it is switching itself off automatically.

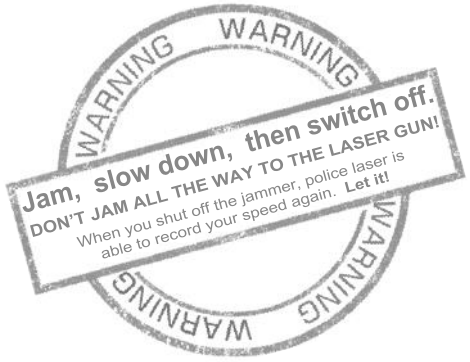
When you next use the system after an automatic shut down, you must first move the battery switch on the VizAlert display to the OFF position, then turn it back ON again as normal.

2 Switching the jammers ON and OFF
Your jammers will power up when you start the engine.

You can confirm they are switched on by checking the Status LED. If this is not lit up, turn the system on at the handlebar kill switch.

When the jammers power up, the LASERnode transmitter inside the wireless control box will begin transmitting to the VizAlert V2 display. **All the LED's will flash in a circular sequence to confirm that the wireless link is established and that the two parts of the system are "talking" to each other.**

You can turn the system off at any time using the handlebar kill switch. Also, when you switch off your engine, power to the jammer system is automatically cut off, so you won't get a flat battery.

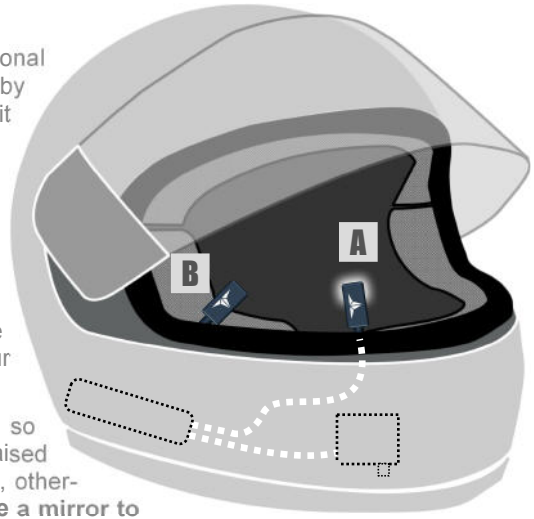

WARNING
WARNING
Jam, slow down, then switch off.
DON'T JAM ALL THE WAY TO THE LASER GUN!
When you shut off the jammer, police laser is able to record your speed again. Let it!
WARNING
WARNING

Installing the Display

LED Display
The mounting location is a matter of personal choice. It can be held securely in place by your helmet's cheek padding, so that it does not move during use.

To begin with, we recommend fitting it as far towards the front of the view port as possible (position A), but it must never interfere with your forward vision.

As you become familiar with using the product, you may prefer to move it more towards the side of your helmet, in your peripheral vision (position B).



The warning lights are very directional, so care must be taken to ensure that the raised "bubbles" point directly towards your eye, otherwise you may miss some alerts. **TIP: Use a mirror to see where the warning beams are hitting your face and adjust their aim, if necessary**.

Receiver
The receiver can be easily tucked behind the comfort liner or even slipped underneath the base gasket, and secured with Velcro, if required.

Battery Pack
Secure the battery pack with Velcro, in a convenient location for access to the ON/OFF switch. **The battery pack is not waterproof so must be positioned inside the helmet.**

Cruiser / Open Face / Shorty Helmets
The VizAlert V2 is designed for full-face helmets. For Cruiser style helmets, we recommend replacing the VizAlert V2 display with the VizAlert Classic display (see page 11). Its receiver / battery is 100% waterproof and designed for mounting on the **outside** of helmets.

Replacing the Batteries

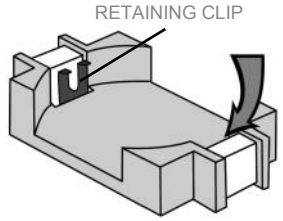
Two CR2032 batteries are already installed and should last more than 60 hours of normal operation. Replacement CR2032 3V batteries are available at all good battery stockists.

1 Remove the four screws that secure the battery cover and extract the battery holder from the casing.

2 Insert a nail file, screwdriver or similar object at the opposite end of the battery to the retaining clip. Gently prise the battery out.

3 Insert 2 x CR2032 3V button cell batteries with the positive side facing upwards. The batteries securely click into position.

4 Replace battery holder inside casing and re-tighten screws.



Installing the Blinders

1 Blinder Heads

There are 2 heads for front and rear protection. The exact fitting location will vary from bike to bike.

On faired bikes fit the front jammer under the fairing at the nose of the bike using the brackets supplied, or 3M Dual Lock Velcro (not supplied).

On naked bikes it is best practice is to try to install the Blinder heads as close to the lights as possible.

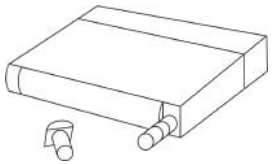
It's very important that the transponders are mounted correctly.

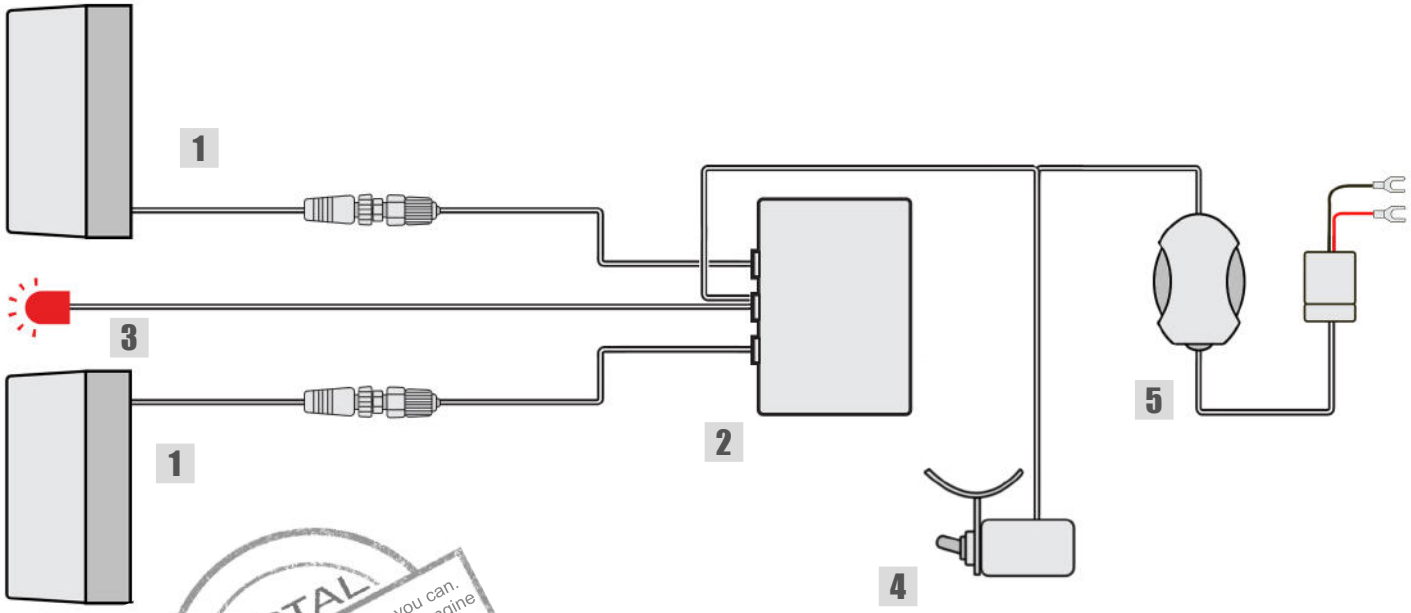
Laser beams cannot pass through objects so the Blinder heads must have a clear, unobstructed view.

The heads must point straight ahead and be level, i.e. they must be horizontal to the road surface and parallel to the driving direction.

Incorrect alignment may result in failure to detect and protect against police laser.

On the outer side of the front on each head you will find a detachable plug. Remove one plug on each head, and put the spirit level into the cylindrical hole. Now you can carefully adjust the angle of the heads to horizontal position. After finishing the adjustment, re-mount the 2 plugs into the front of each head.





INSTAL
Secure cables to the bike where you can.
Avoid contact with high temperature engine components or the exhaust system!
TIP

WARNING
WARNING
Blinders emit infrared (IR) light. Do not look directly into the heads at close range.
Prolonged exposure may cause eye damage.
WARNING
WARNING

2 Wireless Control Box

Position the Wireless Control Box underneath your seat. It is waterproof so can be installed elsewhere on the motorcycle if required.

Then plug and screw together the waterproof connectors from the heads.

3 Status LED (OPTIONAL)

Run the Status LED to your instrument cluster and instal it in a suitable location.

This LED can provide a secondary confirmation of whether your jammer is turned on or off, and will also change color during jammer alerts.

4 Handlebar Kill Switch

The kill switch must be connected in-line between the Interface box and the POWERSENSEnode. The small black connectors are pre- connected, but can be unplugged by pressing the small black lever. Secure the kill switch to the handlebar or hand grip using the cable ties provided.

5 Power Supply

Connect the POWERSENSEnode and fuse pack to the battery terminals.

The POWERSENSEnode is an intelligent engine running sensor, which senses when you start your bike, replacing the need for direct wiring into your bike's electrical system.